Materials Computation Center, University of Illinois

Duane Johnson and Richard Martin, NSF DMR-9976550 $MCC\ Software\ Archive$

Research and Community Service

The MCC Software Archive was developed as a community service:

- to foster shared software resources,
- to reduce multiple code development,
- to encourage collaborations that leverage parallel code development efforts, and
- to support sharing of instructional codes, such as with MCC Summer School computational labs.

Software posted at MCC is made available to (and from) the Computational Materials Community.

The software is either be readily accessible or access is controlled by the author(s) of the software. Each software download requires a simple registration.

Software presently includes codes involving: Instructional, Analysis, DFT, Classical/Quantum Simulation, as well as links to other resources of which MCC is informed.

To contribute, please contact: mcc@uiuc.edu
Or see website for details: www.mcc.uiuc.edu



Example codes:

DataSpork – a MD/MC simulation analysis code that performs averaging, error and variance analysis, block averaging, correlation-time analysis, etc., using JAVA-based. DataSpork was developed for MatSE 385 at UIUC.

PARSEC – planewave pseudopotential (PW-PP) code for real-space electronic-structure calculations from J. Chelikowsky (Minnesota).

PETOT – DFT parallel PW DFT code from L. Wang (NERSC/LBL).

UPI – Path Integral MC code for Fermi and Bose systems from D. Ceperley (UIUC).

OHMMS – Object-oriented Multi-Scale Materials Simulator from J. Kim (MCC).